

**Amendments to the Specification:**

Please amend the specification as follows:

Please replace paragraph starting at page 1, line 11, with the following rewritten paragraph:

The fuel-cell system of this kind is an apparatus for directly converting energy having the fuel into electric energy. The fuel-cell system supplies hydrogen-rich gas toward a cathode (fuel pole) of a pair of poles provided such as to sandwich an electrolyte film, and supplies gas including oxygen toward the other pole, i.e., an anode (oxidizer pole). The fuel-cell system taken out electric energy from the poles utilizing the following electrical reaction generated on surfaces of the pair of poles at the side of the electrolyte film:

~~Cathode reaction~~Anode reaction:  $\text{H}_2 \rightarrow 2\text{H}^+ + 2\text{e}^-$

~~Anode reaction~~Cathode reaction:  $2\text{H}^+ + 2\text{e}^- + (1/2)\text{O}_2 \rightarrow \text{H}_2\text{O}$

As a apparatus for generating the hydrogen-rich gas which will become superconductive fuel, a reforming reactor reforming methanol into fuel gas including large amount of hydrogen is used. As an apparatus for generating oxidizer including oxygen, a compressor for taking in air to produce compressed air is used. The compressed air from the compressor is cooled by an aftercooler or the like and then, the air is supplied to the anode of the fuel-cell, on one hand,<sup>1</sup> the methanol gas is sent from a fuel tank to a reforming reactor, and the reformed hydrogen-rich gas is supplied to the cathode of the fuel-cell.

Please replace paragraph starting at page 8, line 29, with the following rewritten paragraph:

The fuel-cell stack 200 is provided with a pair of poles sandwiching an electrolyte film, compressed air 404 from the compressor 400 is supplied toward a cathode of the fuel-cell stack, reformed gas 135 enriched with hydrogen which was generated by the reforming reactor 120 and passed through the carbon monoxide removing reactor 130 is supplied toward an anode, and the fuel-cell stack 200 assumes super electricity by the following electrical and chemical reaction. An amount of air supplied from the compressor 400 is adjusted by a flow rate control valve 201 in accordance with command from a control unit 300.

~~Cathode reaction~~Anode reaction:  $\text{H}_2 \rightarrow 2\text{H}^+ + 2\text{e}^-$

~~Anode reaction~~Cathode reaction:  $2\text{H}^+ + 2\text{e}^- + (1/2)\text{O}_2 \rightarrow \text{H}_2\text{O}$

Hydrogen ion generated by the anode reaction is passes through (dispersed) the electrolyte film in a hydrate state of  $\text{H}^+(\text{xH}_2\text{O})$ , the hydrogen ion which passed though the electrolyte film is subjected to cathode reaction. As a result, the fuel-cell stack 200 assumes super electricity, and supplies super electricity to the outside load such as a motor.